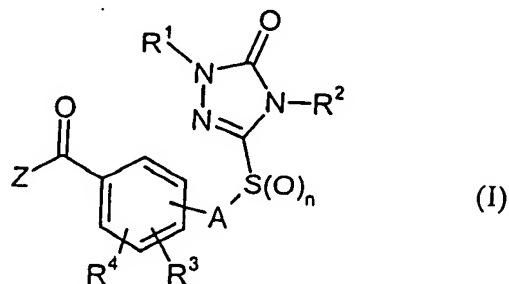


## Patent Claims

1. Substituted aryl ketones of the general formula (I)



in which

n represents the numbers 0, 1 or 2,

A represents a single bond or represents alkanediyl,

R<sup>1</sup> represents hydrogen or represents in each case optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl or arylalkyl,

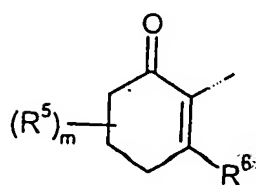
R<sup>2</sup> represents hydrogen, amino, or represents in each case optionally substituted alkyl, alkoxy, alkylamino, dialkylamino, alkenyl, alkenyloxy, alkynyl, alkynyloxy, cycloalkyl, cycloalkylalkyl, aryl, arylamino or arylalkyl,

R<sup>3</sup> represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thio-carbamoyl, halogen, or represents in each case optionally substituted alkyl, alkylcarbonyl, alkoxy, alkoxy carbonyl, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylamino-sulphonyl,

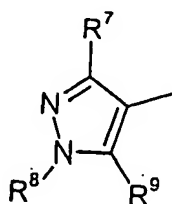
R<sup>4</sup> represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thio-carbamoyl, halogen, or represents in each case optionally substituted

alkyl, alkylcarbonyl, alkoxy, alkoxycarbonyl, alkylthio, alkylsulphanyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylaminosulphonyl, and

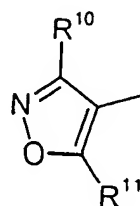
Z represents one of the groupings below



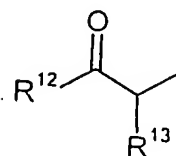
(Z¹)



(Z²)



(Z³)



(Z⁴)

where

m represents the numbers 0 to 6.

R⁵ represents halogen or represents in each case optionally substituted alkyl or alkylthio, or - if m represents 2-together with a second radical R⁵ represents alkanediyl (alkylene),

R⁶ represents hydroxyl, formyloxy, or represents in each case optionally substituted alkoxy, alkylthio, alkylcarbonyloxy, alkoxycarbonyloxy, alkylaminocarbonyloxy, alkylsulphonyloxy, alkenyloxy, alkinylloxy, arylalkyl, aryloxy, arylthio, arylcarbonyloxy, arylcarbonylalkoxy, arylsulphonyloxy, arylalkoxy or arylalkylthio,

R⁷ represents hydrogen, cyano, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally substituted alkyl, alkoxy, alkylthio, alkylsulphanyl, alkylsulphonyl, alkoxycarbonyl or cycloalkyl,

R<sup>8</sup> represents hydrogen or represents in each case optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl or arylalkyl,

R<sup>9</sup> represents hydroxyl, formyloxy, or represents in each case optionally substituted alkoxy, alkylcarbonyloxy, alkoxycarbonyloxy, alkylamino-carbonyloxy, alkylsulphonyloxy, alkenyloxy, alkinyloxy, arylalkoxy, arylcarbonyloxy, arylcarbonylalkoxy or arylsulphonyloxy,

R<sup>10</sup> represents hydrogen, cyano, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally substituted alkyl, alkylcarbonyl, alkoxy, alkoxycarbonyl or alkylthio,

R<sup>11</sup> represents hydrogen or represents in each case optionally substituted alkyl or cycloalkyl,

R<sup>12</sup> represents hydrogen or represents in each case optionally substituted alkyl or cycloalkyl, and

R<sup>13</sup> represents hydrogen, cyano, carbamoyl, halogen, or represents in each case optionally substituted alkyl, alkoxy, alkoxycarbonyl, alkylthio, alkylsulphinyl or alkylsulphonyl,

including all possible tautomeric forms of the compounds of the general formula (I) and the possible salts of the compounds of the general formula (I).

2. Compounds according to Claim 1, characterized in that

A represents a single bond or represents alkanediyl having 1 to 6 carbon atoms,

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R<sup>1</sup> represents hydrogen, represents optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkyl having 1 to 6 carbon atoms, represents in each case optionally cyano- or halogen-substituted alkenyl or alkynyl having in each case 2 to 6 carbon atoms, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl or cycloalkylalkyl having in each case 3 to 6 carbon atoms in the cycloalkyl group and optionally 1 to 4 carbon atoms in the alkyl moiety, or represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-halogenoalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-halogenoalkoxy-substituted aryl or arylalkyl having in each case 6 or 10 carbon atoms in the aryl group and optionally 1 to 4 carbon atoms in the alkyl moiety,

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R<sup>2</sup> represents hydrogen, amino, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkyl, alkoxy, alkylamino or di-alkylamino having in each case 1 to 6 carbon atoms in the alkyl groups, represents in each case optionally cyano- or halogen-substituted alkenyl, alkenyloxy, alkynyl or alkynyloxy having in each case 2 to 6 carbon atoms, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl or cycloalkylalkyl having in each case 3 to 6 carbon atoms in the cycloalkyl group and optionally 1 to 4 carbon atoms in the alkyl moiety, or represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-halogenoalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-halogenoalkoxy-substituted aryl, arylamino or arylalkyl having in each case 6 or 10 carbon atoms in the aryl group and optionally 1 to 4 carbon atoms in the alkyl moiety,

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R<sup>3</sup> represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thio-carbamoyl, halogen, or represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkyl, alkylcarbonyl, alkoxy,

alkoxycarbonyl, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylaminosulphonyl having in each case 1 to 6 carbon atoms in the alkyl groups, and

5      $R^4$  represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thio-carbamoyl, halogen, or represents in each case optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkoxy-substituted alkyl, alkylcarbonyl, alkoxy, alkoxycarbonyl, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylamino, dialkylamino or dialkylaminosulphonyl having in each case 1 to 6  
10     carbon atoms in the alkyl groups.

3.     Compounds according to Claim 1 or 2, characterized in that

15      $m$  represents the numbers 0, 1, 2, 3 or 4,

20      $R^5$  represents halogen or represents in each case optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkoxy-substituted alkyl or alkylthio having in each case 1 to 6 carbon atoms, or optionally also - if  $m$  represents 2 - together with a second radical  $R^5$  represents alkanediyl (alkylene) having 2 to 6 carbon atoms,

25      $R^6$  represents hydroxyl, formyloxy, or represents in each case optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkoxy-substituted alkoxy, alkylthio, alkyl-carbonyloxy, alkoxycarbonyloxy, alkylaminocarbonyloxy or alkyl-sulphonyloxy having in each case 1 to 6 carbon atoms in the alkyl groups, represents in each case optionally cyano- or halogen-substituted alkenyloxy or alkinyloxy having in each case 2 to 6 carbon atoms, or represents in each case optionally nitro-, cyano-, halogen-,  $C_1$ - $C_4$ -alkyl-,  $C_1$ - $C_4$ -halogenoalkyl-,  $C_1$ - $C_4$ -alkoxy- or  $C_1$ - $C_4$ -halo-  
30     genoalkoxy-substituted arylalkyl, aryloxy, arylthio, arylcarbonyloxy, arylcarbonylalkoxy, arylsulphonyloxy, arylalkoxy or arylalkylthio

having in each case 6 or 10 carbon atoms in the aryl group and optionally 1 to 4 carbon atoms in the alkyl moiety,

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R<sup>7</sup> represents hydrogen, cyano, carbamoyl, thiocarbamoyl, halogen, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl or alkoxycarbonyl having in each case 1 to 6 carbon atoms in the alkyl groups, or represents optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl having 3 to 6 carbon atoms,

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R<sup>8</sup> represents hydrogen, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkyl having 1 to 6 carbon atoms, represents in each case optionally cyano- or halogen-substituted alkenyl or alkynyl having in each case 2 to 6 carbon atoms, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkyl-substituted cycloalkyl or cycloalkylalkyl having in each case 3 to 6 carbon atoms in the cycloalkyl group and optionally 1 to 4 carbon atoms in the alkyl moiety, or represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-halogenoalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-halogenoalkoxy-substituted aryl or arylalkyl having in each case 6 or 10 carbon atoms in the aryl group and optionally 1 to 4 carbon atoms in the alkyl moiety,

20  
R<sup>9</sup> represents hydroxyl, formyloxy, represents in each case optionally cyano-, halogen- or C<sub>1</sub>-C<sub>4</sub>-alkoxy-substituted alkoxy, alkylcarbonyloxy, alkoxycarbonyloxy, alkylaminocarbonyloxy or alkylsulphonyloxy having in each case 1 to 6 carbon atoms in the alkyl groups, represents in each case optionally cyano- or halogen-substituted alkenyloxy or alkynyloxy having in each case 2 to 6 carbon atoms, or represents in each case optionally nitro-, cyano-, halogen-, C<sub>1</sub>-C<sub>4</sub>-alkyl-, C<sub>1</sub>-C<sub>4</sub>-halogenoalkyl-, C<sub>1</sub>-C<sub>4</sub>-alkoxy- or C<sub>1</sub>-C<sub>4</sub>-halogeno-

alkoxy-substituted arylalkoxy, arylcarbonyloxy, arylcarbonylalkoxy or arylsulphonyloxy having in each case 6 or 10 carbon atoms in the aryl group and optionally 1 to 4 carbon atoms in the alkyl moiety,

5         $R^{10}$  represents hydrogen, cyano, carbamoyl, thiocarbamoyl, halogen, or represents in each case optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkoxy-substituted alkyl, alkylcarbonyl, alkoxy, alkoxycarbonyl or alkylthio having in each case 1 to 6 carbon atoms in the alkyl groups,

10        $R^{11}$  represents hydrogen, represents optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkoxy-substituted alkyl having 1 to 6 carbon atoms or represents optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkyl-substituted cycloalkyl having 3 to 6 carbon atoms,

15        $R^{12}$  represents hydrogen, represents optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkoxy-substituted alkyl having 1 to 6 carbon atoms or represents optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkyl-substituted cycloalkyl having 3 to 6 carbon atoms, and

20        $R^{13}$  represents hydrogen, cyano, carbamoyl, halogen, or represents in each case optionally cyano-, halogen- or  $C_1$ - $C_4$ -alkoxy-substituted alkyl, alkoxy, alkoxycarbonyl, alkylthio, alkylsulphinyl or alkylsulphonyl having in each case 1 to 6 carbon atoms in the alkyl groups.

25       4.       Compounds according to Claim 1, characterized in that:

          A       represents a single bond or represents alkanediyl having 1 to 4 carbon atoms,

30        $R^1$  represents hydrogen, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n-

or i-propyl, n-, i-, s- or t-butyl, represents in each case optionally cyano-, fluorine-, chlorine- or bromine-substituted propenyl, butenyl, propinyl or butinyl, represents in each case optionally cyano-, fluorine-, chlorine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl or cyclohexylmethyl, or represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, n-, i-, s- or t-butoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, benzyl or phenylethyl,

$R^2$  represents hydrogen, amino, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methylamino, ethylamino, n- or i-propylamino, n-, i- or s-butylamino, dimethylamino or diethylamino, represents in each case optionally cyano-, fluorine-, chlorine- or bromine-substituted propenyl, butenyl, propenyloxy, butenyloxy, propinyl, butinyl, propinyloxy or butinyloxy, represents in each case optionally cyano-, fluorine-, chlorine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl or cyclohexylmethyl, or represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, n-, i-, s- or t-butoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl, phenylamino, benzyl or phenylethyl,

$R^3$  represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thio-carbanioyl, fluorine, chlorine, bromine, or represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted



methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, acetyl, propionyl, n- or i-butyryl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, methylamino, ethylamino, n- or i-propylamino, n-, i-, s- or t-butylamino, dimethylamino, diethylamino, dimethylaminosulphonyl or diethylaminosulphonyl, and

R<sup>4</sup> represents hydrogen, nitro, cyano, carboxyl, carbamoyl, thiocarbamoyl, fluorine, chlorine, bromine, or represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, acetyl, propionyl, n- or i-butyryl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, methylamino, ethylamino, n- or i-propylamino, n-, i-, s- or t-butylamino, dimethylamino, diethylamino, dimethylaminosulphonyl or diethylaminosulphonyl.

5. Compounds according to any of Claims 1 to 4 characterized in that

m represents the numbers 0, 1, 2 or 3,

R<sup>5</sup> represents fluorine, chlorine, bromine, or represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, or optionally also - if m represents 2 - together with a second radical R<sup>5</sup> represents ethane-1,2-

diyl (dimethylene), propane-1,3-diyl (trimethylene) or butane-1,4-diyl (tetramethylene),

5  $R^6$  represents hydroxyl, formyloxy, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, acetyloxy, propionyloxy, n- or i-butyroxyloxy, methoxycarbonyloxy, ethoxycarbonyloxy, n- or i-propoxycarbonyloxy, methylaminocarbonyloxy, ethylaminocarbonyloxy, n- or i-propylaminocarbonyloxy, methylsulphonyloxy, ethylsulphonyloxy, n- or i-propylsulphonyloxy, represents in each case optionally cyano-, fluorine-, chlorine- or bromine-substituted propenyloxy, butenyloxy, propinyloxy or butinyloxy, or represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, n-, i-, s- or t-butoxy-, di-fluoromethoxy- or trifluoromethoxy-substituted phenoxy, phenylthio, benzoyloxy, benzoylmethoxy, phenylsulphonyloxy, phenylmethoxy, phenylmethylthio or benzyl,

20  $R^7$  represents hydrogen, cyano, carbamoyl, thiocarbamoyl, fluorine, chlorine, bromine, represents in each case optionally cyano-, fluorine-, chlorine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, or represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl,

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$R^8$  represents hydrogen, represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, represents in each case optionally cyano-, fluorine-, chlorine- or bromine-substituted propenyl, butenyl, propinyl or butinyl, represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cyclopropylmethyl, cyclobutylmethyl, cyclopentylmethyl or cyclohexylmethyl, or represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, n-, i-, s- or t-butoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenyl or benzyl,

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$R^9$  represents hydroxyl, formyloxy, represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methoxy-, ethoxy-, n- or i-propoxy-substituted methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, acetyloxy, propionyloxy, n- or i-butyroxyloxy, methoxycarbonyloxy, ethoxycarbonyloxy, n- or i-propoxycarbonyloxy, methylaminocarbonyloxy, ethylaminocarbonyloxy, n- or i-propylaminocarbonyloxy, methylsulphonyloxy, ethylsulphonyloxy, n- or i-propylsulphonyloxy, represents in each case optionally cyano-, fluorine-, chlorine- or bromine-substituted propenyloxy, butenyloxy, propinyloxy or butinyloxy, or represents in each case optionally nitro-, cyano-, fluorine-, chlorine-, bromine-, methyl-, ethyl-, n- or i-propyl-, n-, i-, s- or t-butyl-, trifluoromethyl-, methoxy-, ethoxy-, n- or i-propoxy-, n-, i-, s- or t-butoxy-, difluoromethoxy- or trifluoromethoxy-substituted phenylmethoxy, benzoyloxy, benzoylmethoxy or phenylsulphonyloxy,

5  $R^{10}$  represents hydrogen, cyano, carbamoyl, thiocarbamoyl, fluorine, chlorine, bromine, or represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methoxy-, ethoxy-, n- or i-propoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, acetyl, propionyl, n- or i-butyryl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio,

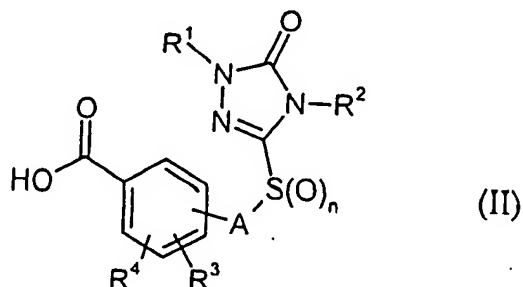
10  $R^{11}$  represents hydrogen, represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, or represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl,

15  $R^{12}$  represents hydrogen, represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, or represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methyl- or ethyl-substituted cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl, and

20  $R^{13}$  represents hydrogen, cyano, carbamoyl, fluorine, chlorine, bromine, or represents in each case optionally cyano-, fluorine-, chlorine-, bromine-, methoxy- or ethoxy-substituted methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl, methoxy, ethoxy, n- or i-propoxy, n-, i-, s- or t-butoxy, methoxycarbonyl, ethoxycarbonyl, n- or i-propoxycarbonyl, methylthio, ethylthio, n- or i-propylthio, n-, i-, s- or t-butylthio, methylsulphinyl, ethylsulphinyl, n- or i-propylsulphinyl, methylsulphonyl, ethylsulphonyl, n- or i-propylsulphonyl.

6 Process for preparing compounds according to any of Claims 1 to 5, characterized in that

5 (a) substituted benzoic acids of the general formula (II)



in which

10 n, A, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are each as defined in any of Claims 1, 2 and 4,

or reactive derivatives thereof,

are reacted with compounds of the general formula (III)



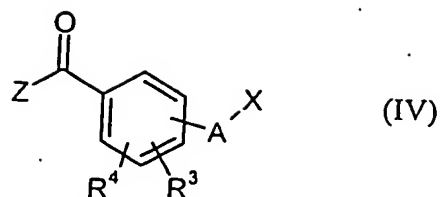
15 in which

Z is as defined in any of Claims 1, 3 and 5,

20 if appropriate in the presence of a dehydrating agent, if appropriate in the presence of one or more reaction auxiliaries and if appropriate in the presence of a diluent,

or that

5 (b) halogenoalkyl-aryl ketones of the general formula (IV)

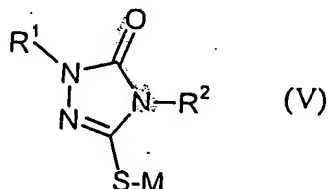


in which

A, R<sup>3</sup>, R<sup>4</sup> and Z are each as defined in any of Claims 1 to 5 and

X represents halogen

are reacted with compounds of the general formula (V)



in which

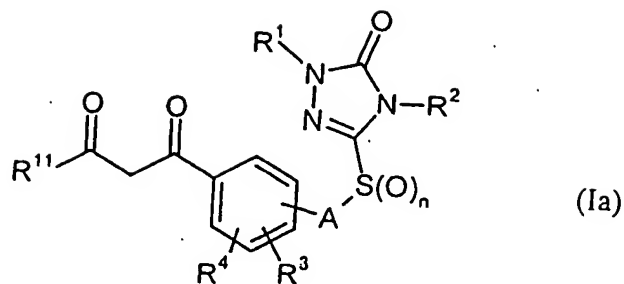
R<sup>1</sup> and R<sup>2</sup> are each as defined in any of Claims 1, 2 and 4 and

M represents hydrogen or a metal equivalent,

if appropriate in the presence of a reaction auxiliary and if appropriate in the presence of a diluent,

or that

(c) benzoyl ketones of the general formula (Ia)



in which

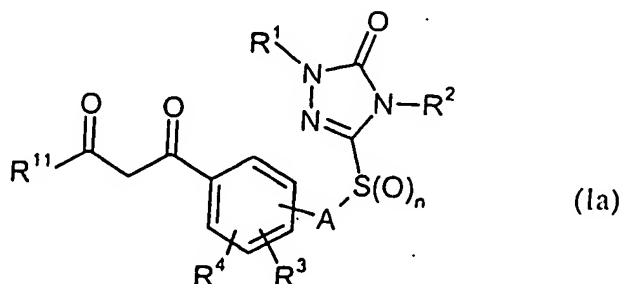
n, A, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>11</sup> are each as defined in any of Claims 1 to 5,

are reacted with an orthoformic ester or an N,N-dimethyl-formamide acetal or with a cyanoformic ester or with carbon disulphide and an alkylating agent, and subsequently with hydroxylamine or an acid adduct thereof,

if appropriate in the presence of one or more reaction auxiliaries and if appropriate in the presence of one or more diluents,

and substitutions, oxidations or reductions within the scope of the definition of the substituents are carried out in a customary manner, if appropriate subsequent to the processes (a), (b) or (c) according to the invention, on the resulting compounds of the general formula (I), and/or the compounds of the general formula (I) are converted in a customary manner into salt-like compounds.

7. Benzoyl ketones of the general formula (Ia)



in which

n, A, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup> and R<sup>11</sup> are each as defined in any of Claims 1 to 5.

- 5 8. Use of at least one compound according to any of Claims 1 to 5 for  
controlling undesirable plants.
9. Compositions, characterized in that they comprise at least one compound  
according to any of Claims 1 to 5 and customary extenders.

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